FIG. 1A

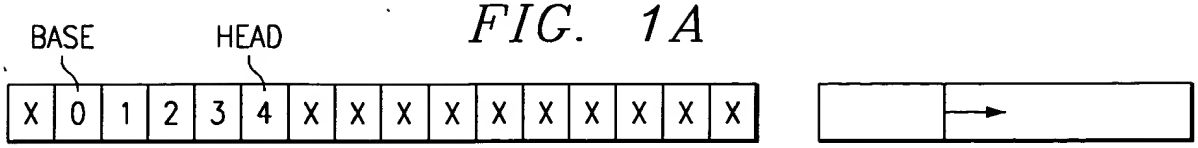


FIG. 1B

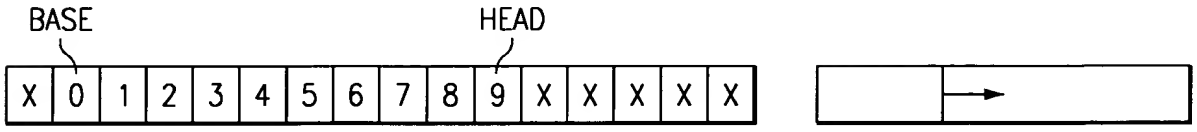


FIG. 2A

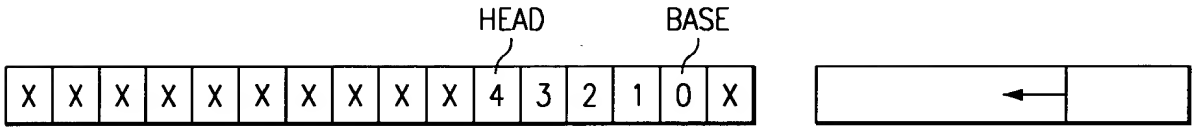


FIG. 2B

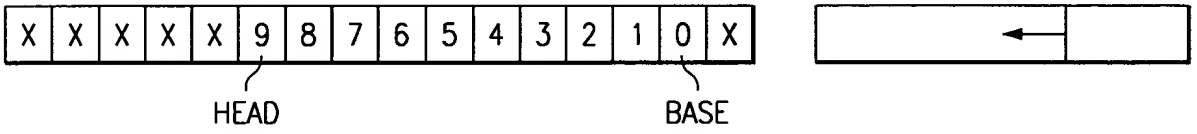


FIG. 3

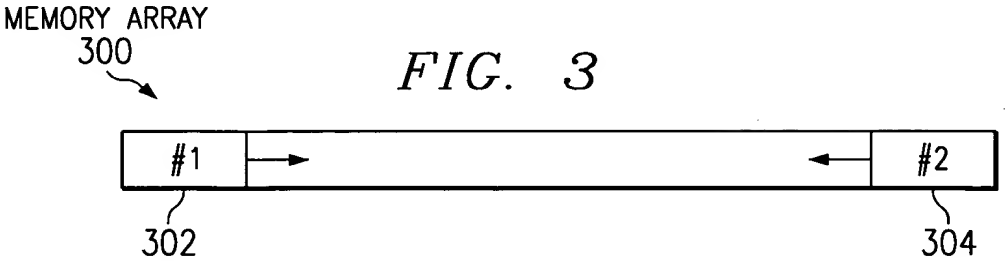
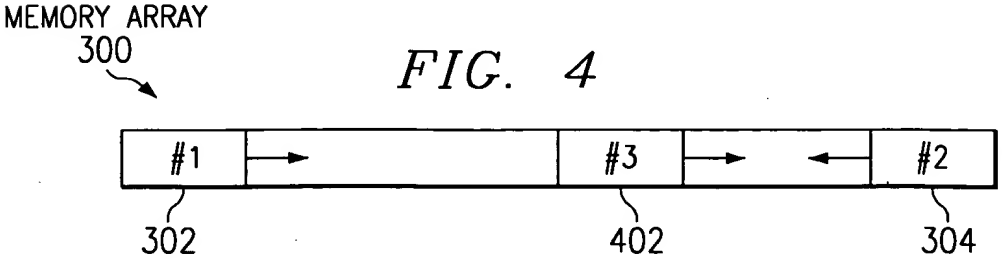


FIG. 4



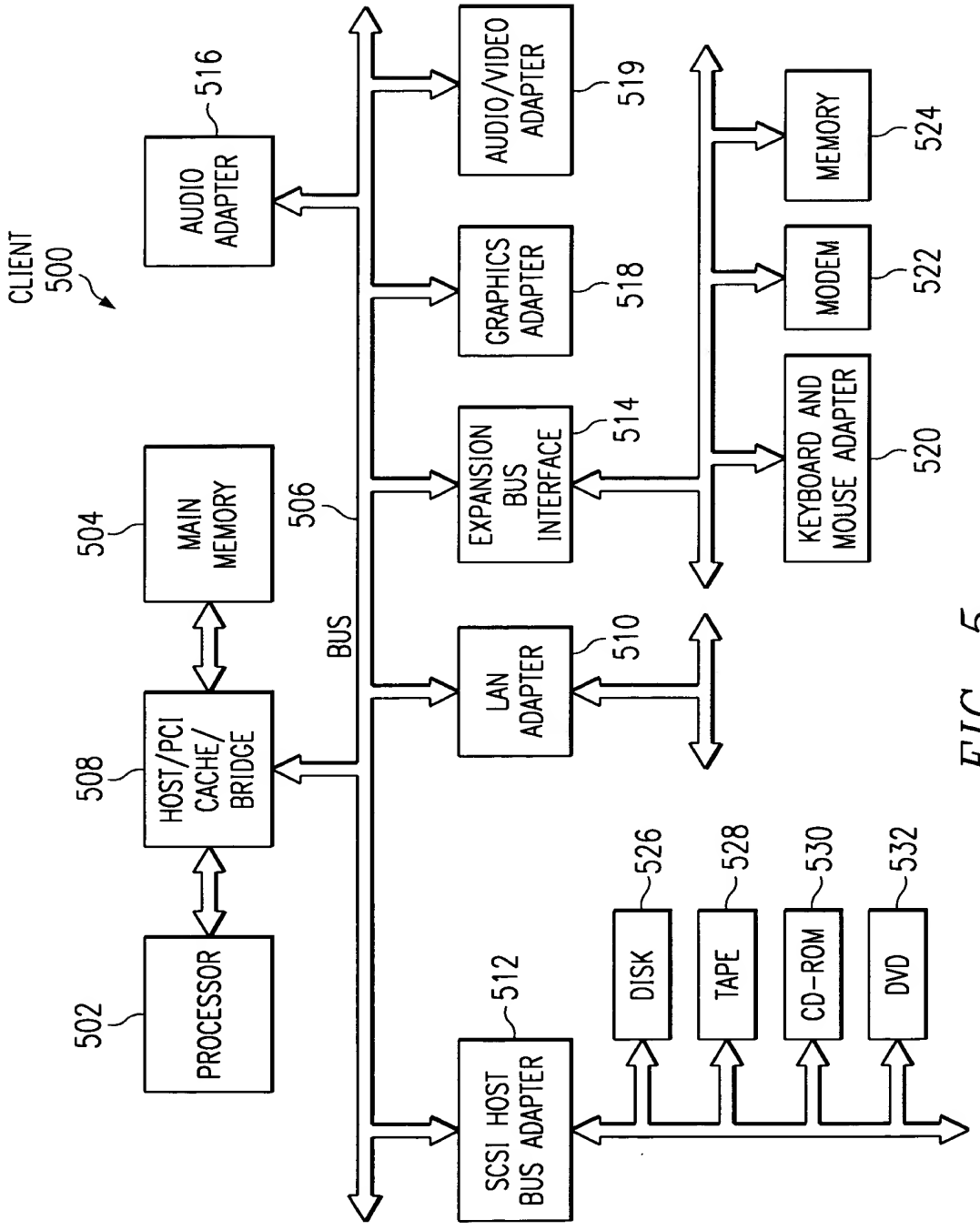
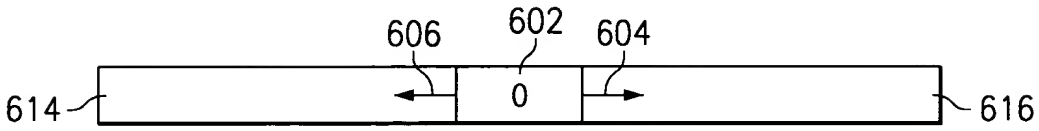

CLIENT
500
PROCESSOR
502
HOST/PCI CACHE/ BRIDGE
508
MAIN MEMORY
504
BUS
506
AUDIO ADAPTER
516
GRAPHICS ADAPTER
518
AUDIO/VIDEO ADAPTER
519
EXPANSION BUS INTERFACE
514
LAN ADAPTER
510
SCSI HOST BUS ADAPTER
512
KEYBOARD AND MOUSE ADAPTER
520
MODEM
522
MEMORY
524
DISK
526
TAPE
528
CD-ROM
530
DVD
532

FIG. 5

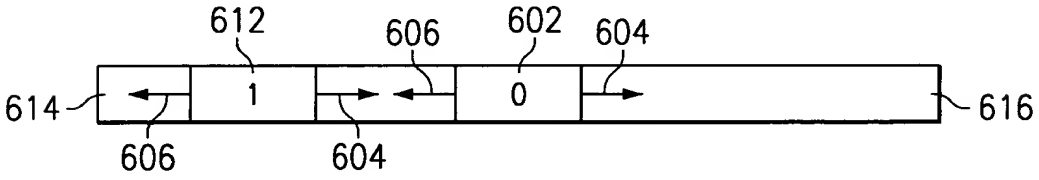
ONE BI-DIRECTIONAL STACK 600

FIG. 6A



TWO BI-DIRECTIONAL STACKS 600

FIG. 6B



THREE BI-DIRECTIONAL STACKS 600

FIG. 6C

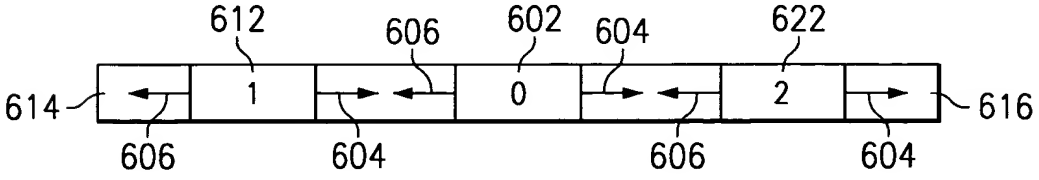


FIG. 7A
(PRIOR ART)

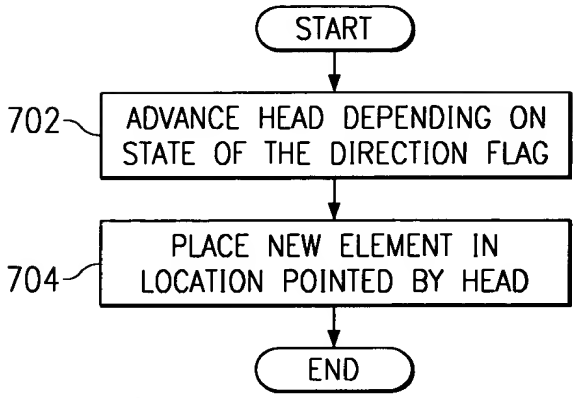


FIG. 7B

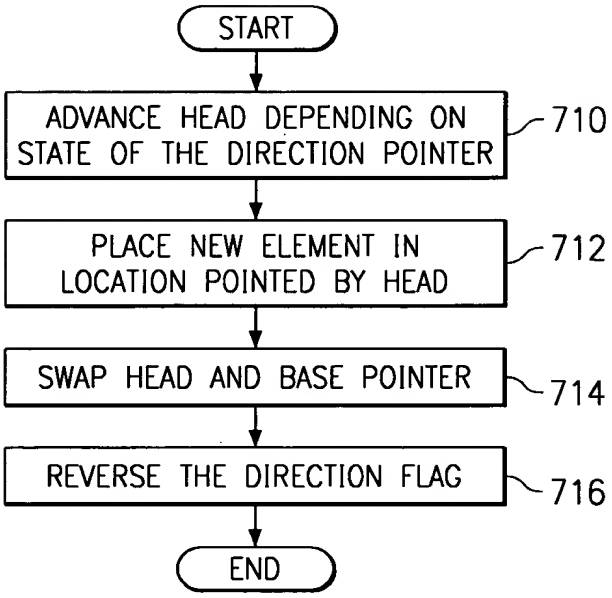


FIG. 9A
(PRIOR ART)

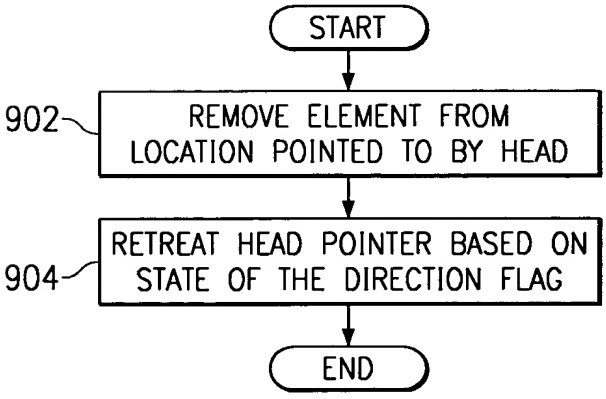
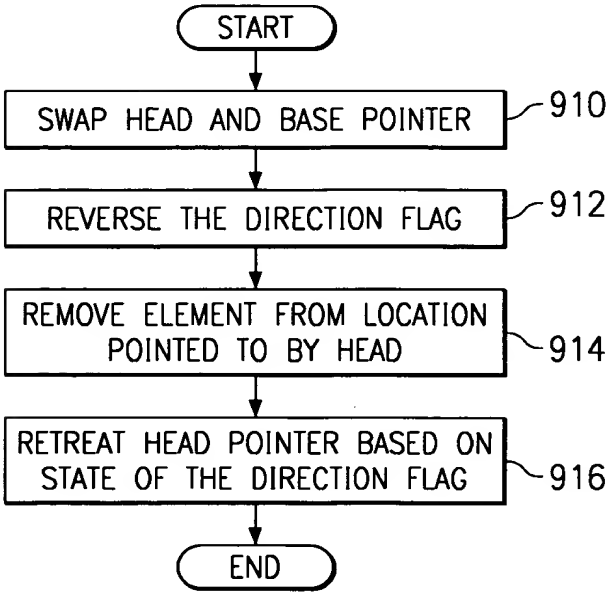


FIG. 9B



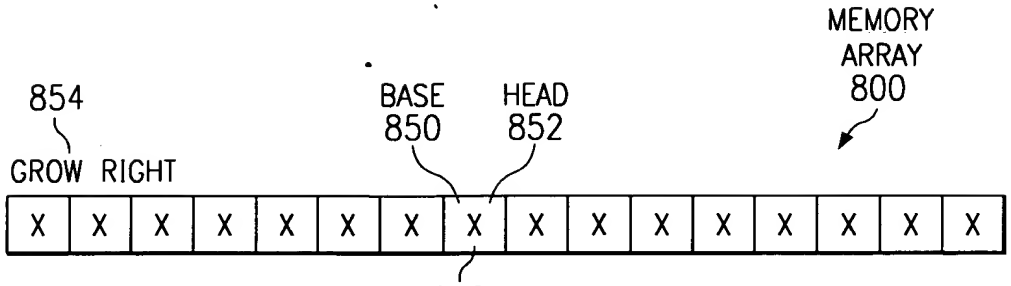


FIG. 8A

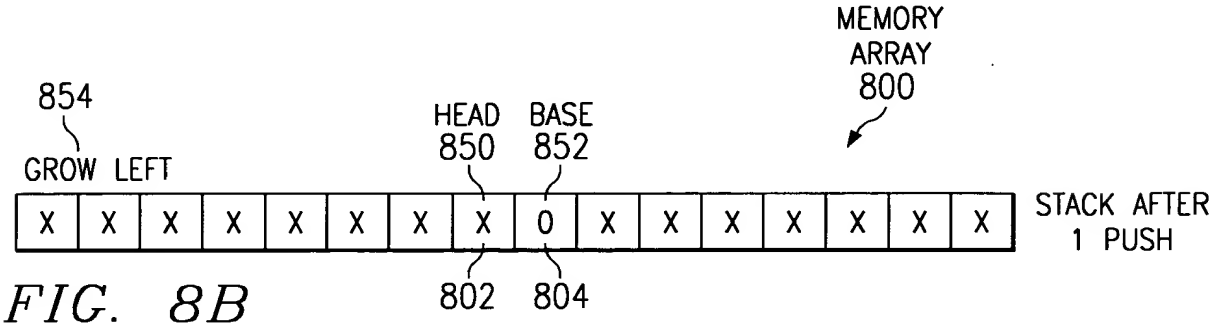


FIG. 8B

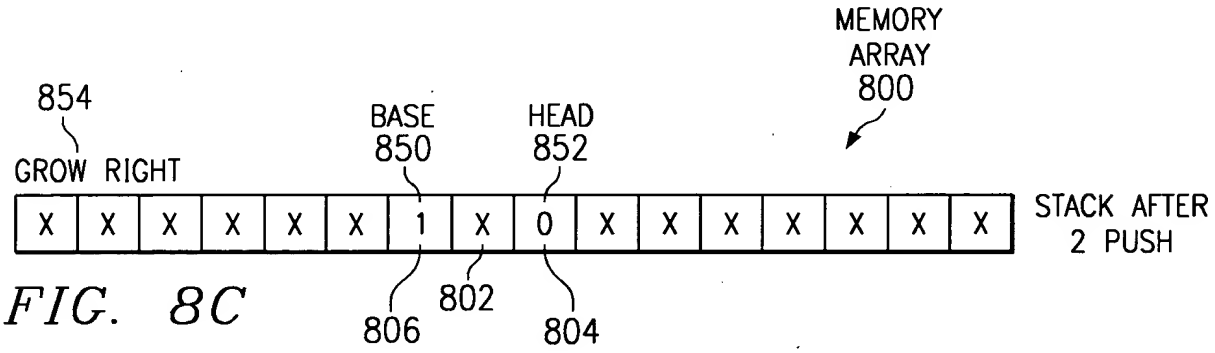


FIG. 8C

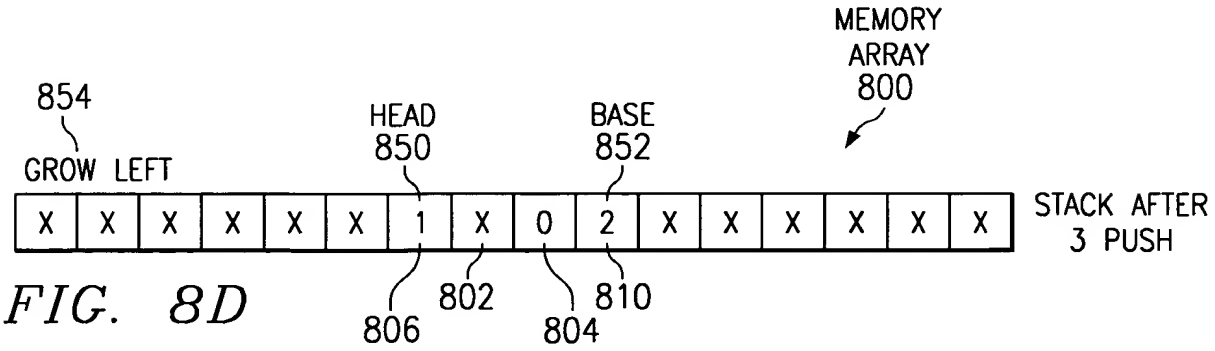


FIG. 8D

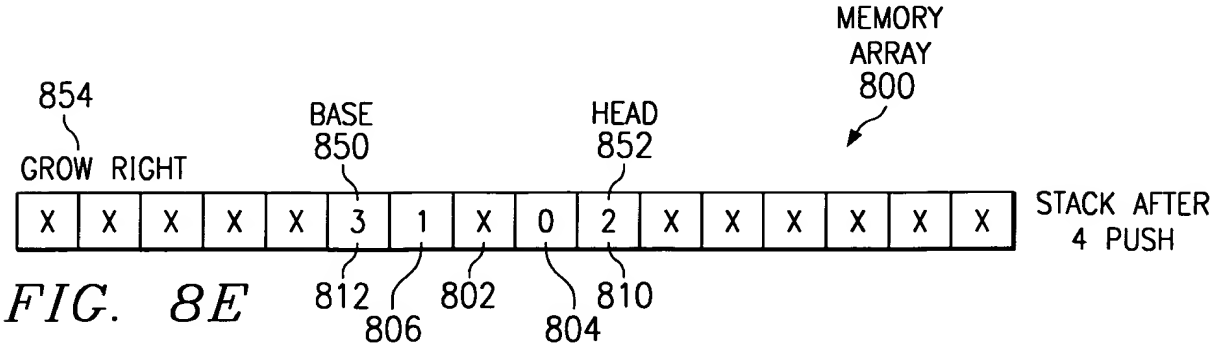


FIG. 8E

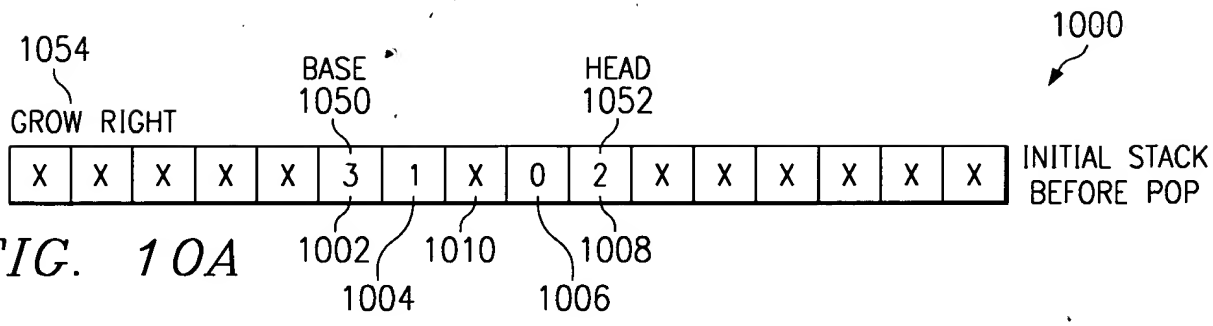


FIG. 10A

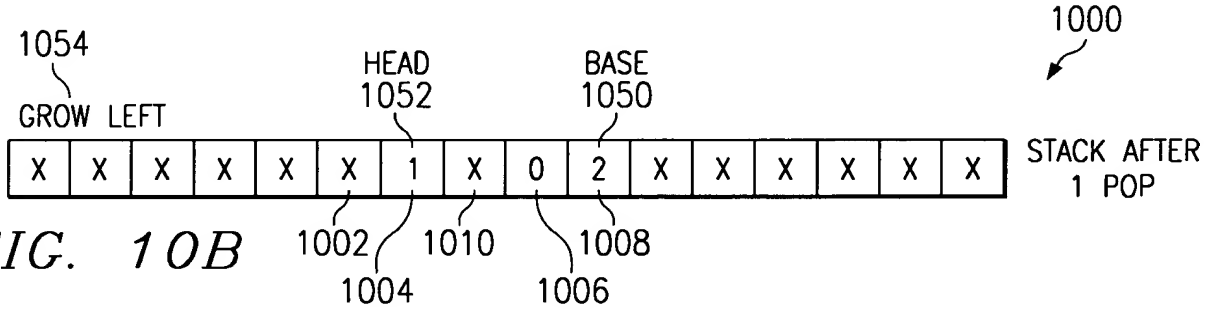


FIG. 10B

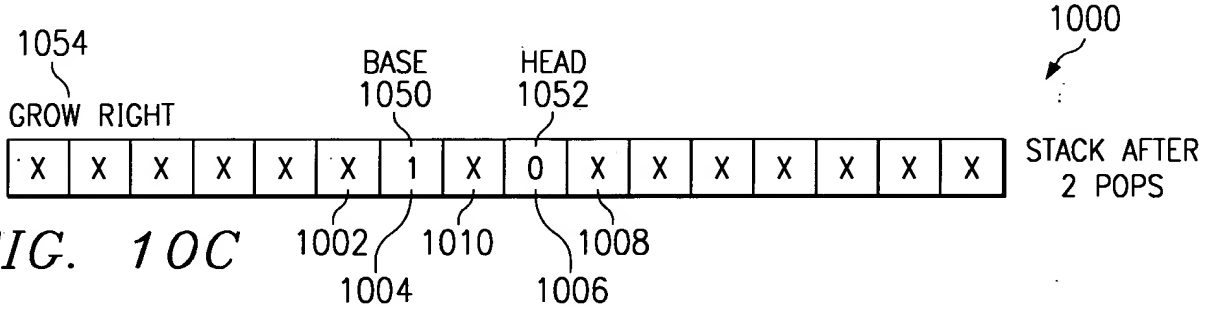


FIG. 10C

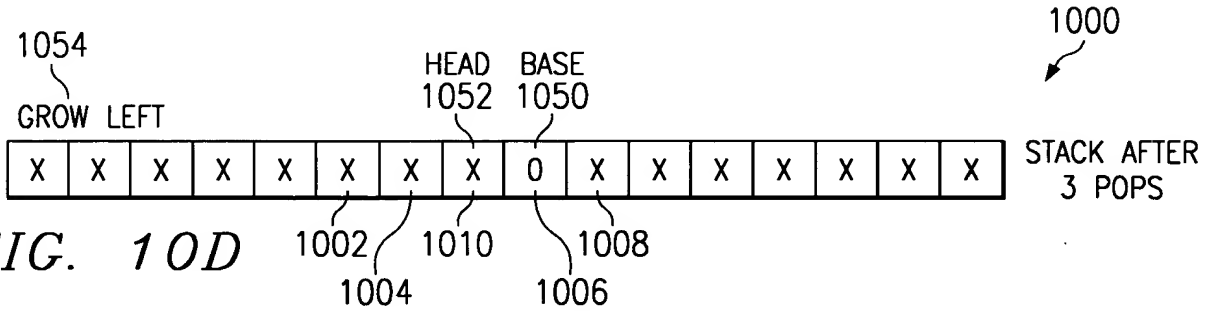


FIG. 10D

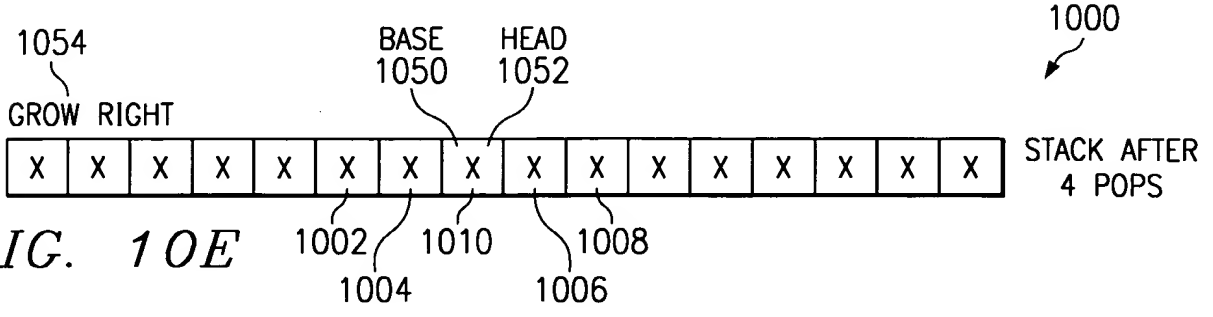


FIG. 10E